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Includes New and Revised Standards for:

- Aerospace
- Aerospace Material Specifications
- Ground Vehicle

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STANDARDS

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SAE International

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SAE IS GLOBAL STANDARDS

OVERVIEW

The standards products of SAE International are in full use around the world today. The SAE Technical Standards Development Program is now—and has been for nearly a century—among the organization's primary provisions to those mobility industries it serves: aerospace, automotive and commercial vehicle. Its aerospace standards program has made SAE that industry's largest standards development organization (SDO) today.

Like the organization itself, the standards operation of SAE was formed by members of industry. Among the program's first issued standards (circa. 1910s) were an interchangeable aeronautic spark plug designed for military service and the earliest oil viscosity standards for automobiles. These initial documents were more than the start of what would become today's standards product line from SAE, now 8,400 documents strong. They were the collaborative beginnings of the formal and well established modern-day process that the world and its many industries now know as consensus standards development. Among the most important consensus works of SAE today are its Aerospace Standards (AS documents), Aerospace Materials Specifications (AMS documents), and J1939 standards family for controller area networks (CAN) in commercial vehicles.

Consensus remains the tried and true cornerstone for any successful industry standards program. However, with the globalization of the mobility industry, new standards initiatives emerged—most in the interests of harmonizing the works of many nation- or region-based programs around the world. Globalization has made plain the need for many things including increased cooperation among the world's SDOs. For SAE, it has driven the formation and expansion of business partnerships, the growth of the standards product line, and new capabilities in standards development methods.

The Technical Committees of SAE—the heart of the organization's consensus standards program—have been primary in moving forward many SAE partnerships, the work of SAE affiliate organizations, consortia driven standards capabilities and more. Comprised of the most impressive rosters of industry professionals and representatives from regulatory agencies and government groups worldwide, some 10,000 volunteers serve on more than 700 committees, subcommittees and working groups. SAE Technical Committees are also at the helm for developing new programs and capabilities for products and services beyond the traditional SAE standard such as supplier certification programs, cooperative research initiatives, maintenance training and more.

The standards development programs of SAE are overseen by the organization's Technical Standards Board (TSB), a who's who list of industry executives. They oversee the various SAE Councils whose members direct the technical committee operations. The TSB ensures, too, that SAE meets the guidelines established by the World Trade Organization for the development of international standards.

Today's SAE standards and related programs serve every aspect of industry—from design/integrate to build/manufacture to operate/maintain in both the commercial and military sectors—worldwide. SAE is committed to providing...and partnering to provide...the globally harmonized solutions needed for the future of the mobility industry.





Investing in Standards Means Investing in the Success of Products and Services

How do standards help? Standards stimulate innovation; they impart design, production and interoperability guidelines; they clarify legal and regulatory gray areas; they condense product development cycles; they ensure consistency and high quality in manufacturing; and they lead the way to maximum performance.

SAE Standards:

- Improve Productivity
- Reduce Costs
- Improve Quality
- Strengthen Your Competitive Advantage
- Improve Safety
- Facilitate Innovation
- Increase Speed-to-Market

Standards Available from SAE*

- Aerospace Standards (AS): 3,900 documents
- Aerospace Material Specifications (AMS): 2,800+ documents
- Ground Vehicle Standards (J-Reports): 2,000+ documents

*SAE cooperates with other industry organizations to develop and distribute select groups of standards; see SAE/USCAR Standards, page 22, and UNS 10th Edition, page 24.

PURCHASING OPTIONS

SAE standards can be purchased individually, by select packaged collections, and as part of an online subscription. Individual standards and collections are usually offered in a variety of formats (print, fax, CD-ROM, online) and can be purchased online or ordered by e-mail, fax, or phone. Online subscriptions offer a range of flexible pricing options and deliver standards in PDF format. See Standards Products, page 19, or contact us for more information:



AEROSPACE

TOP SELLING AEROSPACE INDIVIDUAL STANDARDS

As of October 2006

AS9100B Quality Management Systems - Aerospace - Requirements

AS9101C Quality Management Systems Assessment
AS9102A Aerospace First Article Inspection Requirement
AS9101B Quality Management Systems Assessment

AS478M Identification Marking Methods
ARP5416 Aircraft Lightning Test Methods
ARP5414A Aircraft Lightning Zoning

ARP5412A Aircraft Lightning Environment and Related Test Waveforms

ARP4761 Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne

Systems and Equipment

ARP5316B Storage of Elastomeric Seals and Seal Assemblies Which Include An Elastomer Element

Prior to Hardware Assembly

AS9003 Inspection and Test Quality System

ARP4754 Certification Considerations for Highly-Integrated Or Complex Aircraft Systems
AS9104A Requirements for Aerospace Quality Management System Certification/Registrations

Programs

AIR5359B Requirements for Certification/Registration of Aerospace Quality Management Systems

AS4059E Aerospace Fluid Power - Cleanliness Classification for Hydraulic Fluids
JA1011_19908 Evaluation Criteria for Reliability-Centered Maintenance (Rcm) Processes

AS8879D Screw Threads - Unj Profile, Inch Controlled Radius Root with Increased Minor Diameter

AS9014 Americas Aerospace Quality Group (AAQG) Requirements for Aerospace Quality

Management System Certification/Registrations Programs

AS5202A Port or Fitting End, Internal 14 731.60
AMS2175 Classification and Inspection of Castings

AS9120 Quality Management Systems - Aerospace Requirements for Stockist Distributors

AS9110 Quality Maintenance Systems - Aerospace - Requirements for Maintenance Organizations

AS9103 Variation Management of Key Characteristics

ARP5789 Aviation Fuel Facilities

AS4395B Fitting End, Flared Tube Connection, Design Standard



AEROSPACE - New and Revised Standards

| ARP378C Aug 06 | * Passenger Reading Lights |
|-----------------------|---|
| AIR790C Aug 06 | * Considerations on Ice Formation in Aircraft Fuel Systems |
| ARP1048B Aug 06 | * Instrument and Cockpit Illumination for General Aviation Aircraft |
| AS1100C Jul 06 | * Union, Flared Tube, Bulkhead and Universal, With Seal Ring |
| ARP1110B Jun 06 | * Minimizing Stress Corrosion Cracking in Wrought Forms of Steels and Corrosion Resistant |
| | Steels and Alloys |
| AS1251C Jul 06 | * Fitting, Union, Flared Tube for Seal Ring |
| ARP1315D Sep 06 | * Safety Considerations for Airplane Lavatories |
| AS1369B Jul 06 | * Fitting, Plug, Flared Tube for Seal Ring |
| AS1424F Sep 06 | * Hose Assemblies, Metal, Medium Pressure, High Temperature |
| AS1710C Aug 06 | * Coupling, Fuel, Flexible, Variable Cavity Threaded Type With Ferrules |
| AS1712C Aug 06 | * Coupling Sub-Assembly, Flexible, Variable Cavity, Threaded, Ferrule Type Tube Ends |
| AS1713C Aug 06 | * Half Coupling Sub-Assembly, Flexible, Variable Cavity, Threaded, Ferrule Type Tube Ends |
| AS1715D Aug 06 | * Washer, Coupling, Flexible, Variable Cavity, Threaded, Ferrule Type Tube Ends |
| AS1716D Aug 06 | * Ferrule, Coupling, Flexible, Variable Cavity, Threaded, Ferrule Tube End |
| AS1717D Aug 06 | * Retainer, Coupling, Flexible, Variable Cavity, Threaded Ferrule Type Tube End |
| AS1718D Aug 06 | * Coupling Body, Flexible, Variable Cavity, Threaded Ferrule Type Tube Ends |
| AS1791D Sep 06 | * Wire, Retainer - Tube Coupling Nut |
| AS3319C Sep 06 | * Stud - Straight, Ring Locked, CRES AMS 5731, .190-24UNJC X .190-32UNJF |
| AS3320C Sep 06 | * Stud - Straight, Ring Locked, CRES AMS 5731, .250-20UNJC X .250-28UNJF |
| AS3321C Sep 06 | * Stud - Straight, Ring Locked, CRES AMS 5731, .3125-18UNJFC X .3125-24UNJF |
| AS3322C Sep 06 | * Stud - Straight, Ring Locked, CRES AMS 5731, .375-16UNJC X .375-24UNJF |
| ARP4084A Jun 06 | * Aircraft Ground Serivce Connections Locations and Type |
| ARP4087B Sep 06 | * Wing Inspection Lights - Design Criteria |
| AS4210B Jun 06 | * Fitting, Tee, Beam Seal |
| AS4211B Jun 06 | * Fitting, Cross, Beam Seal |
| AS4220A Jun 06 | * Fitting, Elbow, 45°, Beam Seal Bulkhead |
| AS4221A Jun 06 | * Fitting, Elbow, 90°, Beam Seal Bulkhead |
| AS4224A Jun 06 | * Fitting Assembly, Tee, Beam Seal, Retained Nut on Side |
| AS4230A Jun 06 | * Fitting, Elbow, 45°, External Thread, Beam Seal to Integral Weld Ring |
| AS4231A Jun 06 | * Fitting, Elbow, 45°, Bulkhead, External Thread, Beam Seal to Integral Weld Ring |
| AS4232A Jun 06 | * Fitting, Elbow, 90°, External Thread, Beam Seal to Integral Weld Ring |
| AS4233A Jun 06 | * Fitting, Elbow, 90°, Bulkhead, External Thread, Beam Seal to Integral Weld Ring |
| AS4301B Jun 06 | * Fitting, Adapter, Conical End to Flared Tube Reducer for Seal Ring |
| AS4307B Jun 06 | * Fitting, Flared Tube, External Straight Thread for Seal Ring |
| AS4308B Jun 06 | * Fitting, Bushing - Screw Thread Expander for Seal Ring |
| AS4309A Jun 06 | * Nipple - Flared Tube to Pipe Thread, for Seal Ring |
| AS4317B Jun 06 | * Fitting, Reducer, Adapter, Flared Tube to Boss for Seal Ring |
| AS4318A Jul 06 | * Adapter, Flared Tube .375 Bulkhead to Boss, for Seal Ring |
| AS4319B Jun 06 | * Fitting, Expander, Adapter, Flared Tube to Boss for Seal Ring |
| AS4328B Jun 06 | * Fitting, Union, Reducer, Bulkhead, Flared Tube, for Seal Ring |
| AS4340B Jun 06 | * Fitting, Bushing, Screw Thread Reducer, for Seal Ring |
| ARP4721 Part 2 Aug 06 | +Monitoring Aircraft Noise and Operations in the Vicinity of Airports: System Validation |
| ARP4721 Part 1 Aug 06 | +Monitoring Aircraft Noise and Operations in the Vicinity of Airports: System Description, Acquisition, and Operation |
| AS4807A Jun 06 | * Fitting Assembly, Elbow, 90°, Beam Seal, Retained Nut |
| AS4809A Jun 06 | * Fitting Assembly, Tee, Beam Seal, Retained Nut on Run |
| ARP4822 Jun 06 | +Night Vision Imaging System (NVIS) Compatible Illuminated Pushbutton Switches and Indicators |
| ARP4835 Sep 06 | +Aerospace Fluid Power-Hydraulic Thermal Expansion Relief Valves |

^{*} Technical Revision

| AS4148 Aug 06 AS5002A Jun 06 Fitting, Elbow, 90°, Boarn Saal AS5003A Jun 06 AS500 | | |
|---|-----------------|---|
| ASS003A Jun 06 ASS04A Jun 06 ASS04A Jun 06 ASS06B Sep 06 ASS16BA Jan 00 ASS16BA Jan 00 ASS16BA Jan 00 ASS16BA Jan 06 ASS46BA Jan 06 ASS6BB Jun 06 ASS6BB Sep 06 ASS6BB Jun 06 ASS6BB Jun 06 ASS6BB Sep 06 ASS6BB Jun 06 AS | _ | |
| AS5004A Jun 06 ARP5056 Sep 07 AS5383 Jun 06 ARS5188A Jun 00 AS5383 Jun 06 AS5432A Jun 06 AS5432A Jun 06 AS5432A Jun 06 AS5432A Jun 06 AS5506/1 Jun 06 AS5506 AS5506/1 Jun 06 AS5506/1 Jun 06 AS5506 AS5506/1 Jun 06 AS5506 AS5506/1 Jun 06 AS5506 AS5506/1 Jun 06 AS5506 AS506 AS500 AS50 | AS5002A Jun 06 | |
| ARP5056 Sep 06 AS518A Jan 00 AS5395 Jun 06 AS5439A Jun 06 AS5439A Jun 06 AS5439A Jun 06 AS5439A Jun 06 AS5506/1 Jun 06 AS5439A Jun 06 AS5506/1 Jun 06 AS5439A Jun 06 AS5506/1 Jun 06 AS5506/1 Jun 06 AS5508/1 Jun 06 AS5608/1 | AS5003A Jun 06 | 3 |
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| AS543A Jun 06 AS542A Jun 06 AS542A Jun 06 AS5607 Jun 07 AS | AS5188A Jan 00 | * Fitting, Elbow, 90°, Bulkhead, Hose |
| AS5452A Jun 06 AS5506/1 Jun 06 AS5500 Aug 06 AS5530 Aug 07 AS5530 Aug 06 AS5530 Aug 07 AS5530 Aug 08 AS553 | AS5395 Jun 06 | |
| AS5508/1 Jun 06 +SAE Architecture Analysis and Design Language (AADL) Annex Volume 1: Annex A: Graphical AADL Notation, Annex C: AADL Meta-Model and Interchange Formats: Annex D: Language Compliance and Application Program Interface, Annex E: Error Model Annex 4: Sleeve, Flareless Tube Fitting, Internally Swaged AS5530 Aug 06 AS5530 Aug 06 AS5531 Aug 06 AS5531 Aug 06 AS5531 Aug 06 AS5530 Aug 06 AS5630 Aug 06 AS563 | | |
| Graphical AADL Notation, Annex C: AADL Meta-Model and Interchange Formats, Annex D: Language Compilance and Application Program Interface, Annex E: Error Model Annex +Sleeve, Flareless Tube Fitting, Internally Swaged +Union, Plareless Tube Fitting, Internally Swaged +Union, Plareless Tube Fitting, Internally Swaged +Union, Plareless Tube Fitting, Internally Swaged +Union, Short Flareless Tube Fitting, Internally Swaged +Union, Short Flareless Tube Fitting, Internally Swaged +S6550A Aug 06 +Fittle Assembly, Fing Locker, Adapter, Flareless to Port, Extra Fine Threads, 5080 PSI +Safety Considerations for Aircraft-Mounted Lasers Projected into the Navigable Airspace +S6568 Aug 06 +Steel, Cornosion Resistant, Safety Wire, 18Cr 11.5Ni (UNS S05500) Solution Heat Treated, Cold Finished +Considerations for the Carriage and Use of Visual Distress Signals in Airline Overwater Survival Kits AIR5690 Aug 06 +Considerations for the Carriage and Use of Visual Distress Signals in Airline Overwater Survival Kits AIR5690 Sep 06 +Aerospace Fluid Power - FAA Regulatory History – Transport Airplane Hydraulic Systems +Fitting Assembly, Adapter, Bulkhead Flareless, Avially Swaged, Hydraulic +Fitting Assembly, Straight, Female Flareless, Avially Swaged, Hydraulic +Fitting Assembly, Straight, Male Flareless, Avially Swaged, Hydraulic +Fitting Assembly, Straight, Male Flareless, Avially Swaged, Hydraulic +Fitting Assembly, Traight, Male Flareless, Avially Swaged, Hydraulic +Fitting Assembly, Traight, Male Flareless, Flexible, Fixed Cavity, Current Carrying, Self Bonding, Procurement Specification +Assembled Coupling, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Envelope Dimensions +Assembled Coupling Components, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged +Sep 06 +Sleeve, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged +Fienale Perule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged +Fienale Ferrule, Threadless-Flexible, Fixed Cavity | AS5452A Jun 06 | |
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| Cold Finished +Considerations for the Carriage and Use of Visual Distress Signals in Airline Overwater Survival Kits AIR5696 Sep 06 +Aerospace Fluid Power - FAA Regulatory History – Transport Airplane Hydraulic Systems +Fitting Assembly, Adapter, Bulkhead Flareless, Axially Swaged, Hydraulic AS5792 Jun 06 +Fitting Assembly, Straight, Female Flareless, Axially Swaged, Hydraulic +Fitting Assembly, Straight, Male Flareless, Axially Swaged, Hydraulic +Fitting Assembly, Straight, Male Flareless, Axially Swaged, Hydraulic +Coupling Assembly, Threadless, Flexible, Fixed Cavity, Current Carrying, Self-Bonding, Procurement Specification AS5831 Sep 06 -Assembled Coupling, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Envelope Dimensions -Assembled Coupling Components, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Envelope Dimensions -AS5833 Sep 06 -Assembled Coupling Components, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged -AS5833 Sep 06 -AS5835 Sep 06 -AS5836 Sep 06 -Sleeve, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding -Fitting End, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding Male and Female Design Standard -AS5837 Sep 06 -AS5839 Sep 06 -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -AS5839 Sep 06 -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded -Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Self Bonding, Self Bonding, Self Bonding, Self Bonding, Self Bonding, Self Bonding | ARP5674 Sep 06 | +Safety Considerations for Aircraft-Mounted Lasers Projected into the Navigable Airspace |
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| AS5830 Sep 06 +Coupling Assembly, Threadless, Flexible, Fixed Cavity, Current Carrying, Self-Bonding, Procurement Specification AS5831 Sep 06 +Assembled Coupling, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Envelope Dimensions AS5832 Sep 06 +Assembled Coupling Components, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged AS5833 Sep 06 +Male Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged AS5835 Sep 06 +Sleeve, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding AS5836 Sep 06 +Fitting End, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding AS5837 Sep 06 +Female Design Standard AS5837 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded AS5838 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged AF6839 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded AS5863 Jun 06 +Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers AS5929 Jun 06 +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight AS5954B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° | AS5792 Jun 06 | +Fitting Assembly, Straight, Female Flareless, Axially Swaged, Hydraulic |
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| AS5833 Sep 06 AS5834 Sep 06 AS5834 Sep 06 AS5835 Sep 06 AS5835 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5837 Sep 06 AS5836 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5838 Sep 06 AS5839 Sep 06 AS5864 Jun 06 AS5864 Jun 06 AS5865 Jun 06 AS5865 Sep 06 AS | AS5831 Sep 06 | |
| AS5834 Sep 06 AS5835 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5838 Sep 06 AS5839 Sep 06 AS | AS5832 Sep 06 | |
| AS5835 Sep 06 AS5836 Sep 06 AS5836 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5837 Sep 06 AS5838 Sep 06 AS5839 Sep 06 AS5840 Jun 06 AS | AS5833 Sep 06 | +Male Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged |
| AS5836 Sep 06 +Fitting End, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding Male and Female Design Standard AS5837 Sep 06 +Male Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded AS5838 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying. Self Bonding, Swaged +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying. Self Bonding, Butt Welded AS5863 Jun 06 +Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers AS5929 Jun 06 +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 *Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight AS5953B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° *AS5954B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° | AS5834 Sep 06 | +Sleeve, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding |
| Female Design Standard AS5837 Sep 06 | AS5835 Sep 06 | +Coupling Body, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding |
| AS5838 Sep 06 AS5839 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Swaged +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying. Self Bonding, Butt Welded AS5863 Jun 06 AS5864 Jun 06 AS5864 Jun 06 ARP5918 Jul 06 AS5929 Jun 06 -Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers -Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti- Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 * Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275°F (135°C), Aircraft Hydraulic Systems * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° | AS5836 Sep 06 | |
| AS5839 Sep 06 +Female Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying. Self Bonding, Butt Welded AS5863 Jun 06 AS5864 Jun 06 ARP5918 Jul 06 ARP5918 Jul 06 AS5929 Jun 06 -Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers | AS5837 Sep 06 | +Male Ferrule, Threadless-Flexible, Fixed Cavity, Current Carrying, Self Bonding, Butt Welded |
| Welded AS5863 Jun 06 AS5864 Jun 06 AS5864 Jun 06 ARP5918 Jul 06 AS5929 Jun 06 AS5929 Jun 06 AS5951A Sep 06 AS5952B Aug 06 AS5953B Aug 06 AS5954B Aug 06 AS5954B Aug 06 AS595864 Jun 06 +Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. *Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275°F (135°C), Aircraft Hydraulic Systems *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° AS5954B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° | AS5838 Sep 06 | |
| AS5864 Jun 06 ARP5918 Jul 06 AS5929 Jun 06 AS5929 Jun 06 AS5929 Jun 06 AS5951A Sep 06 AS5952B Aug 06 AS5953B Aug 06 AS5954B Aug 06 +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard +Standard Test Criteria for Aircraft Refuelers +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. *Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275°F (135°C), Aircraft Hydraulic Systems *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° AS5954B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° | AS5839 Sep 06 | Welded |
| ARP5918 Jul 06 AS5929 Jun 06 +Standard Test Criteria for Aircraft Refuelers +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 *Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275 °F (135°C), Aircraft Hydraulic Systems *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° *AS5954B Aug 06 *Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, | AS5863 Jun 06 | +Fitting End, 24° Cone, Flareless, Fluid Connection, Design Standard |
| AS5929 Jun 06 +Bearing, Roller, Needle, Track Roller, Crown Radiused O.D., Integral Stud, Type VII, Anti-Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 * Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275 °F (135°C), Aircraft Hydraulic Systems AS5952B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° AS5954B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, | AS5864 Jun 06 | +Fitting End, Bulkhead, 24° Cone, Flareless, Fluid Connection, Design Standard |
| Friction, Corrosion Resistant Nitrogen (CREN) Steel and Corrosion Resistant (CRES) Steel, Inc. AS5951A Sep 06 * Hose Assembly, Polytetrafluoroethylene, Para-Aramid Reinforced, 5080 psi (35,000 kPa), 275 °F (135°C), Aircraft Hydraulic Systems AS5952B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° AS5954B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, * * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, * | ARP5918 Jul 06 | +Standard Test Criteria for Aircraft Refuelers |
| 275 °F (135°C), Aircraft Hydraulic Systems * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to Straight AS5953B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° AS5954B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, | AS5929 Jun 06 | |
| Titanium Fittings, Straight to Straight * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, Straight to 45° * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, | AS5951A Sep 06 | 275 °F (135°C), Aircraft Hydraulic Systems |
| Titanium Fittings, Straight to 45° AS5954B Aug 06 * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, | AS5952B Aug 06 | |
| | AS5953B Aug 06 | |
| | AS5954B Aug 06 | |

^{*} Technical Revision

| AS5955B Aug 06 | * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, 45° to 45° |
|---------------------|---|
| AS5956B Aug 06 | * Hose Assembly, Polytetrafluoroethylene, Para Aramid Reinforce, 275°F, 5080 psi, Flareless, Titanium Fittings, 45° to 90° |
| AS5957B Aug 06 | * Hose Assembly, Polytetrafluoroethyle, Para Aramid Reinforced, 275°F, 5080 psi, Flareless, Titanium Fittings, 90° to 90° |
| AS8023A Aug 06 | * Minimum Performance Standards For Airborne Static Electric Power Inverters |
| AS9014 Jul 06 | +Americas Aerospace Quality Group (AAQG) Requirements for Aerospace Quality Management System Certification/Registrations Programs |
| AS9101C Jul 06 | * Quality Management Systems Assessment |
| AS9201B Jul 06 | * Nut, Plain, Hexagon, Boss Connection, Silver Plated, Silver Plated, 347 HRES-UNS S34700 |
| AS9283A Apr 99 | * Bolt, Machine-Hexagon Head, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .1900-32 UNJF-3A |
| AS9284A Jun 06 | * Bolt, Machine-Hexagon Head, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .2500-28 UNJF-3A |
| AS9285A Jun 06 | * Bolt, Machine~Hexagon Head, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .3125-24 UNJF-3A |
| AS9286A Jun 06 | * Bolt, Machine - Hexagon Head, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .3750-24 UNJF-3A |
| AS9292A Jul 06 | * Screw, Machine - Hexagon Head, Drilled 1 Hole, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .1380-40 UNJF-3A |
| AS9294A Jul 06 | * Bolt, Machine-Hexagon Head, Drilled 1 Hole, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .1900-32 UNJF-3A |
| AS9296A Jul 06 | * Bolt, Machine-Hexagon Head, Drilled 1 Hole, PD Shank, Black Oxide, Steel UNS G87400, 125 KSI MIN, .3125-24 UNJF-3A |
| AS9297A Jul 06 | * Bolt, Machine - Steel, AMS 6322, Black Oxide, Drilled, 1 Hole, Hexagon Head, .375-24 UNJF-3A |
| AS18280SUP1 Jun 06 | +Fittings, 24° Cone Flareless, Fluid Connection, 3000 psi (Supplement 1) |
| AS81935/6 Sep 06 | +Bearing, Plain Rod End, Self-Aligning, Self-Lubricating, Wide Externally Threaded, Steel, Corrosion Resistant (CRES) -65 to +325 $^{\circ}$ F |
| AS81935/7 Sep 06 | +Bearing, Plain Rod End, Self-Aligning, Self-Lubricating, Wide, Internally Threaded, Steel, Corrosion Resistant(CRES) -65 to +325 °F |
| AS81935/9 Sep 06 | +Bearing, Plain, Rod End, Self-Aligning, Self-Lubricating, Narrow, Internally Threaded, Steel, Corrosion Resistant (CRES) -65 to +325 $^{\circ}$ F |
| AS85049/130A Aug 06 | * Connector Accessories, Electrical Gasketing Material, Conductive/Non-Conductive, Flange Mount, Category 7 |
| AS85049/138 Sep 06 | +Connector Accessories, Electrical, Cap, Dust, Plastic, Category 9 |
| AS87132 Sep 06 | +Lubricant, Cetyl Alcohol, 1-Hexadecanol, Application to Fasterners |
| AS115801 thru | * Screw - Flat Fillister, Drilled Head, Cadmium Plated, |
| AS 115850B Jun 06 | Steel UNS G87400, 125 KSI MIN .1900-32 UNF-3A |
| AS115901 thru | * Screw~Flat Fllister, Drilled Head, Cadium Plated, |
| AS 115950A Sep 06 | Steel UNS G87400, 125 KSI MIN .2500-28 UNF - 3A |
| AS116913 thru | * Screw ~ Oval Fillister, Drilled Head, Cadmium Plated, |
| AS 116924A Jun 06 | Steel UNS K00802, .1120-40 UNC - 2A |
| AS123451 thru | * Rivet, Solid, 100° Flush Head, High Temperature, 347 |
| AS 123600B Dec 02 | CRES, UNS S34700 |
| AS9318A Aug 06 | * Rivet, Solid - 100° Flush Head, Monel UNS N04400 |
| AS9319A Aug 06 | * Rivet, Solid - Universal Head, Monel UNS N04400 |
| AS21220B Sep 06 | * Bearing, Roller, Rod End, Internal Thread, Self-Aligning, Anti-Friction, Airframe, Heavy Duty, type II, -67° to 350°F, Sealed |
| AS39029A Jun 06 | * Contacts, Electrical Connector, General Specification For |
| AS39029/5A Aug 06 | * Contacts, Electrical Connector, Socket, Crimp Removable (For MIL-C-26482 Series 2, AS81703 Series 3, MIL-C-83723 Series I and III, and MIL-C-83733 Connectors and MIL-S-12883/40 and /41 Relay Sockets) |
| AS51989A Jun 06 | * Stud, Locked In-Ring Locked, Serrated |
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^{*} Technical Revision

⁺ New Document

AS81935/2A Sep 06

AS81936A Jun 06 AS85049/5A Sep 06

AS85049/42A Jun 06

AS85421/5B Aug 06

AS85421/10B Aug 06 AS85421/11B Aug 06 AS85421/12B Aug 06 AS85421/15B Aug 06 AS115851 thru AS 115900A Sep 06 AS115951 thru AS 116000A Jun 06 AS123151 thru AS 123300A Aug 06 AS123301 thru AS 123450A Jul 06 AS123601 thru

AS 123750A Aug 06

- * Bearing, plain rod end, self-aligning, self-lubricating, wide, internally threaded, -65°F to +325°F
- * General Specification for Bearings, Plain, Self-Aligning, (Cu-Be Ball, CRES Race)
- * Connector accessories, electrical, backshell, cable sealing, straight, step-down, category 1A (for MIL-DTL-22992 connectors, classes C, J, and R)
- * Connector Accessories, Electrical, Nonenvironmental, Strain Relief, Straight, Category 4A (for MIL-C-5015 Solder Type, V Thread of MS310X Classes A, B, C or K Connectors)
- * Fitting, tee, reducer and non-reducer, beam seal, 3000/4000 psi, male on run, and branch, swivel nut on run
- * Fitting, adapter, beam seal, 3000/4000 psi, male to flareless
- * Fitting, union, beam seal, 3000/4000 psi, male ends
- * Fitting, Elbow, 90°, Beam Seal, 3000/4000 psi, Male to Male
- * Fitting, Elbow, 45°, Beam Seal, 3000/4000 psi, Bulkhead, Male Ends
- * Screw Flate Fillister, Drilled Head, Cadium Plated, Steel UNS G87400. 125 KSI MIN .2500-20 UNC - 3A
- * Screw~Flat Fillister, Drilled Head, Cadium Plated, Steel UNS G87400, 125 KSI MIN .3125-18 UNC-3A
- * Rivet and Universal Head, High Temperature, AMS 7229
- * Rivet, Solid, Universal Head, Nickel Alloy UNS N06600
- * Rivet, Solid, 100° Flush Head, Nickel Alloy UNS N06600



AEROSPACE MATERIAL SPECIFICATIONS

TOP SELLING AEROSPACE MATERIAL SPECIFICATIONS

As of September 2006

AMS2770H Heat Treatment of Wrought Aluminum Alloy Parts

AMS2750D Pyrometry

AMS5577H Steel, Corrosion and Heat Resistant, Welded Tubing, 25Cr - 20Ni (SAE 30310), Solution Heat

Treated

AMS2759D Heat Treatment of Steel Parts General Requirements

AMS5737P Steel, Corrosion and Heat-Resistant, Bars, Wire, Forgings and Tubing, 15Cr - 25.5Ni - 1.2Mo

- 2.1Ti - 0.006B - 0.30V, Consumable Electrode Melted, 1650 °F (899 °C), Solution and

Precipitation Heat Treated

AMS2759/3D Heat Treatment Precipitation-Hardening Corrosion-Resistant and Maraging Steel Parts

AMS2700B Passivation of Corrosion Resistant Steels

AMSQQS763B Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings (Revised Noncurrent August 2006)

AMS2644D Inspection Material, Penetrant

AMS2772C 4 Heat Treatment of Aluminum Alloy Raw Materials AMSC26074B Electroless Nickel Coatings (NONCURRENT)

AMS5731L Steel, Corrosion and Heat-Resistant, Bars, Wire, Forgings, Tubing, and Rings, 15Cr - 25.5Ni

- 1.2Mo - 2.1Ti - 0.006B - 0.30V, Consumable Electrode Melted, 1800 °F (982 °C) Solution Heat

Treated

AMS6350K Steel Sheet, Strip, and Plate, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130)

AMS2418G Plating, Copper

AMS5630H Steel, Corrosion-Resistant, Bars, Wire, and Forgings, 17Cr – 0.52Mo (0.95-1.20C) (SAE

51440C)

AMS5659L Steel, Corrosion Resistant, Bars, Wire, Forgings, Rings, and Extrusions 15cr 4.5ni 0.30cb (Nb)

3.5cu Consumable Electrode Melted Solution Heat Treated, Precipitation Hardenable

AMS5643Q Steel, Corrosion-Resistant, Bars, Wire, Forgings, Tubing, and Rings 16cr 4,0ni 0,30cb 4,0cu

Solution Heat Treated, Precipitation Hardenable

AMS5610N Steel, Corrosion and Heat-Resistant, Bars, Wire, and Forgings, 12.5Cr - Low Carbon (SAE

51416, 51416Se), Free-Machining

AMSSTD753A Corrosion-Resistant Steel Parts: Sampling, Inspection and Testing for Surface Passivation

(NONCURRENT)

AMS5666F Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, Extrusions, and Rings, 62Ni - 21.5Cr

- 9.0Mo - 3.65 (Cb [Nb] +Ta), Annealed

AMS5662M Nickel Alloy, Corrosion and Heat Resistant, Bars, Forgings, and Rings 52,5ni 19cr 3,0mo 5,1cb

(Nb) 0.90ti 0.50al 18fe, Consumable Electrode Or Vacuum Induction Melted 1775Mdf (968Mdc) Solution Heat Treated, Precipitation Hardenable AMS5734K Steel, Corrosion and Heat-Resistant, Bars, Wire, Forgings, and Tubing, 15Cr - 25.5Ni - 1.2Mo - 2.1Ti - 0.006B - 0.30V,

Consumable Electrode Melted, 1650 °F (899 °C) Solution Heat Treated

AMSH6875A Heat Treatment of Steel Raw Materials

AMS2759/4B Heat Treatment Austenitic Corrosion-Resistant Steel Parts AMS5344E Steel, Corrosion-

Resistant, Investment Castings, 16Cr - 4.1Ni - 0.28Cb - 3.2Cu, Homogenization, Solution and

Precipitation Heat Treated (H900), 180 ksi (1241 MPa) Tensile Strength

AMS5344E Steel, Corrosion-Resistant, Investment Castings, 16Cr - 4.1Ni - 0.28Cb - 3.2Cu,

Homogenization, Solution and Precipitation Heat Treated (H900), 180 ksi (1241 MPa) Tensile

Strength

AEROSPACE MATERIAL SPECIFICATIONS - NEW AND REVISED

AIRCRAFT MAINTENANCE CHEMICALS AND MATERIALS

SAE AMS 1428E Jun 06 * Fluid, Aircraft Deicing/Anti-Icing, Non-Newtonian, (Pseudoplastic), SAE Types II, III, and IV

METAL FINISHES AND PROCESSES

SAE AMS 2280B Sep 06 * Trace Element Control, Nickel Alloy Castings

SAE AMS 2447C Sep 06 * Coating, Thermal Spray High Velocity Oxygen/Fuel Process

SAE AMS 2451/2A Jun 06 * Plating, Brush, Nickel Low Stress, Hard Deposit SAE AMS 2615F Sep 06 * Pressure Testing, Hydraulic, Pressure as Specified

SAE AMS 2670J Jun 06 * Brazing, Copper

SAE AMS 2678 Aug 06 +Furnace Brazing of Parts in a Vacuum Atmosphere

SAE AMS 2759/10A Jun 06 * Automated Gaseous Nitriding Controlled by Nitriding Potential

SAE AMS 2770H Aug 06 * Heat Treatment of Wrought Aluminum Alloy Parts

NON-METALLICS

SAE AMS 3415D Aug 06 * Flux, Aluminum Dip Brazing 1030°F (554°C) or Lower Liquidus

SAE AMS 3644G Sep 06 * Polyimide, Molded Rod, Bar, and Tube, Plaque, and Formed Parts

SAE AMS 3678B Jun 06 * Polytetrafluoroethylene (PTFE) Moldings and Extrusions Unfilled, Pigmented, and Filled

Components

SAE AMS 3678/9A Jun 06 * Type 9, Virgin Polytetrafluoroethylene (PTFE) Moldings with Pigment for AS4716 and AS5857

Backup Rings

SAE AMS 3846D Sep 06 * Cloth, Quartz, Finished for Resin Laminates

SAE AMS 7254A Sep 06 * Perfluoroether Elastomer

ALUMINUM ALLOYS

SAE AMS 4016L Sep 06 * Aluminum Alloy, Sheet and Plate, 2.5Mg 0.25Cr (5052-H32), Strain Hardened, Quarter-Hard, and Stabilized

SAE AMS 4044K Sep 06 * Aluminum Alloy, Sheet and Plate 5.6Zn 2.5Mg 1.6Cu 0.23Cr Annealed (7075-0) or when specified, As Fabricated (7075-F)

SAE AMS 4086N Sep 06 * Aluminum Alloy, Drawn, Round, Seamless Hydraulic Tubing, 4.4Cu 1.5Mg O.6Mn (2024-T3) Solution Heat Treated, Cold Worked and Naturally Aged

SAE AMS 4087H Sep 06 * Aluminum Alloy, Tubing, Seamless, Drawn (2024-0) Reinstate Composition Annealed

SAE AMS 4114H Jun 06 * Aluminum Alloy Bars and Rods, Rolled or Cold-Finished 2.5Mg 0.25Cr (5052-F) As

Fabricated

SAE AMS 4177D Sep 06 * Core, Flexible Honeycomb, Aluminum Alloy, for Sandwich Construction, 5056, 350 (177)

SAE AMS 4178D Sep 06 * Core, Flexible Honeycomb, Aluminum Alloy, Treated, For Sandwich Construction, 5052, 350

(177)

SAE AMS 4180F Sep 06 * Aluminum Wire, 99.0Al Minimum (1100-H18)

SAE AMS 4206A Aug 06 * Aluminum Alloy, Plate (7055-T7751) 8.0Zn 2.3Cu 2.0Mg 0.16Zr Solution Heat Treated, Stress Relieved, and Overaged

SAE AMS 4248B Sep 06 * Aluminum Alloy, Hand Forgings and Rolled Rings 1.0Mg 0.60Si 0.28Cu 0.20Cr (6061-T652) Solution Heat Treated, Stress Relief by Compression, and Precipitation Heat Treated

SAE AMS 4279B Jun 06 * Aluminum Alloy, Alclad Sheet 4.4Cu 1.5Mg 0.60Mn (2024-T4 Flat Sheet) Solution Heat

Treated, High Formability
SAE AMS 4328A Jul 06 * Aluminum Alloy, Plate (2397-T87) 2.8Cu 1.4Li 0.30Mn 0.12Zr 0.10Zn Solution Heat Treated,

Cold Worked, and Artificially Aged
SAE AMS 4337A Sep 06 * Aluminum Alloy, Extruded Profiles (7055-T77511) 8.0Zn 2.3Cu 2.0Mg 0.16Zr Solution Heat

Treated, Stress Relieved, and Overaged
SAE AMS 4340E Sep 06 * Aluminum Alloy, Extrusions, 6.2Zn 2.3Cu 2.2Mg 0.12Zr, Solution Heat Treated, Stress

Relieved, Straightened, and Overaged

^{*} Technical Revision + New Document

| SAE AMS 4341E Sep 06 | * Aluminum Alloy, Extrusions 6.2Zn 2.3Cu 2.2Mg 0.12Zr (7050-T73511) Solution Heat Treated, Stress Relieved by Stretching, Straightened, and Overaged |
|-----------------------|---|
| SAE AMS 4344C Sep 06 | * Aluminum Alloy, Extrusions, 5.6Zn 2.5Mg 1.6Cu 0.23Cr (7175-T73511) Solution Heat Treated, Stress Relieved by Stretching, Straightened, and Overaged |
| SAE AMS 4348D Sep 06 | * Core, Honeycomb Aluminum Alloy, Corrosion Inhibited, |
| | For Sandwich Construction, 5052, 350 (177) |
| SAE AMS 4349D Sep 06 | * Core, Honeycomb, Aluminum Alloy, Corrosion Inhibited For Sandwich Construction 5056, 350 (177) |
| SAE AMS 4401 Aug 06 | +Aluminum Alloy Plate (7140-T7451) 6.6Zn 1.8Cu 2.0Mg 0.10Zr Solution Heat Treated, Stress Relieved and Overaged |
| SAE AMS 4402 Sep 06 | +Aluminum Alloy, Extruded Profiles (2024-T432) 4.4Cu 1.5Mg 0.6Mn Annealed, Stretch Formed, Solution Heat Treated and Stress Relieved by Stretching |
| SAE AMS 4403 Aug 06 | +Aluminum Alloy, Die Forgings 7.5Zn 1.6Cu 1.5Mg 0.12Zr (7085-T7452) Solution Heat Treated, Compression Stress-Relieved, and Overaged |
| SAE AMS 4404 Jun 06 | +Aluminum Alloy, Extruded Profiles (6056-T4511) 1.0Si 0.90Mg 8.80Cu 0.60Mn 0.40Zn Solution Heath Treated and Stress-Relieved by Stretching |
| SAE AMS 4405 Aug 06 | +Aluminum Alloy, Alclad Sheet (6156-T4) 1.0Si 0.90Cu 0.60Mn 0.90Mg Solution Heat Treated and Naturally Aged |
| SAE AMS-QQ-A-250/6A S | ep 06 * Aluminum Alloy 5083, Plate and Sheet |
| SAE AMS-QQ-A-250/9A S | ep 06 * Aluminum Alloy 5456, Plate and Sheet |
| | |

COPPER ALLOYS

| SAE AMS 4597 Aug 06 | +Cooper-Nickel-Tin Alloy, Bars and Rods 77Cu 15Ni 8Sn Solution Annealed, Cold Finished and Spinodal Hardened (TX TS) |
|----------------------|--|
| SAE AMS 4674G Sep 06 | * Nickel - Copper Alloy, Corrosion Resistant Bars and Forgings, 67Ni 30Cu 0.04S Free Machining |

MISCELLANEOUS NONFERROUS ALLOYS

| SAE AMS 4892C Sep 06 | * Alloy Castings, Corrosion and Heat Resistant 66Ni 29Cu 4.0Si As Cast |
|----------------------|---|
| SAE AMS 4893C Sep 06 | * Alloy Castings, Corrosion and Heat Resistant 66Ni 29Cu 4.0Si Solution Treated |
| SAE AMS 7735D Sep 06 | * Alloy Wire, Round 35Pd 30Ag 14Cu 10Au 10Pt 0.85Zn Solution Heat Treated |

TITANIUM ALLOYS

| SAE AMS 4901P Jun 06 | * Titanium Sheet, Strip, and Plate Commercially Pure Annealed, 70 ksi (485 MPa) |
|----------------------|---|
| SAE AMS 4902H Jun 06 | * Titanium Sheet, Strip, and Plate Commercially-Pure Annealed 40.0 ksi (276 MPa) Yield Strength |
| SAE AMS 4919F Sep 06 | * Titanium Alloy Sheet, Strip, and Plate 6Al 2Sn 4Zr 2Mo 0.08Si Duplex Annealed |
| SAE AMS 4922B Jun 06 | * Titanium Alloy, Seamless Hydraulic Tubing, 15V 3.0Cr 3.0Al 3.0Sn Cold Worked and Precipitation Heat Treated |
| SAE AMS 4930F Sep 06 | * Titanium Alloy Bars, Wire, Forgings, and Rings 6Al 4V, Extra Low Interstitials Annealed |
| SAE AMS 4942E Jun 06 | * Titanium Tubing, Seamless Annealed, 40,000 psi (275 MPa) Yield Strength |

WROUGHT CARBON STEELS

SAE AMS 5110J Sep 06 * Carbon Steel, Wire and Springs 0.75 0.88C (SAE 1080) Spring Temper, Cold Drawn

CAST CORROSION AND HEAT RESISTANT STEELS AND ALLOYS

| SAE AMS 5342E Jun 06 | * Steel, Corrosion Resistant, Investment Castings 16Cr 4.1Ni O.28Cb 3.2Cu, Homogenization, |
|----------------------|---|
| | Solution, and Precipitation Heat Treated (H1100) 130 ksi (896 MPa) Tensile Strength (17-4) |
| SAE AMS 5344E Jun 06 | * Steel, Corrosion Resistant, Investment Castings 16Cr 4.1Ni 0.28Cb 3.2Cu Homogenization, |
| | Solution and Precipitation Heat Treated (H900) 180 ksi (1241 MPa) Tensile Strength |
| SAE AMS 5346C Jun 06 | * Steel, Corrosion Resistant, Investment Castings, 15Cr 4.6Ni 0.22Cb (Nb) 2.8Cu, Solution and |

Precipitation Heat Treated (H925), 180 ksi (1241 MPa) Tensile Strength (15-5)

^{*} Technical Revision

⁺ New Document

- SAE AMS 5347B Jun 06 * Steel, Corrosion Resistant, Investment Castings, 15Cr 4.6Ni 0.22Cb (Nb) 2.8Cu, Solution and Precipitation Heat Treated (H1000) 150 ksi (1034 MPa) Tensile Strength (15-5)
- SAE AMS 5382J Sep 06 * Cobalt Alloy, Corrosion and Heat Resistant, Investment Castings, 54Co 25.5Cr 10.5Ni 7.5W, As Cast
- SAE AMS 5399D Sep 06 * Nickel Alloy, Corrosion and Heat Resistant, Investment Castings, 52Ni 19Cr 11Co 9.8Mo 3.2Ti 1.6Al 0.006B, Vacuum-Melted, Vacuum-Cast, Solution Heat Treated

WROUGHT CORROSION AND HEAT RESISTANT STEELS AND ALLOYS

- SAE AMS 5441 Sep 06

 +Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, and Rings Ni 18Cr 2.8Mo
 5.5Cb(Nb) 0.70Ti 1.50Al 10Fe 9Co 1W Consumable Electrode Remelted or Vacuum
 Induction Melted 1775 °F (968 °C) Solution Heat Treated, Precipitation-Hardenable

 +Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, and Rings Ni 18Cr 2.8Mo
 5.5Cb(Nb) 0.70Ti 1.50Al 10Fe 9Co 1W Consumable Electrode Remelted or Vacuum Induction
 Melted 1775 °F (968 °C) Solution and Precipitation Heat Treated SAE AMS 5503E Jun 06 *
- SAE AMS 5521H Sep 06 * Steel, Corrosion and Heat Resistant, Sheet, Strip, and Plate 25Cr 20Ni (SAE 3031S) Solution Heat Treated

Steel, Corrosion Resistant, Sheet, Strip, and Plate, 17Cr (SAE 51430) Annealed

- SAE AMS 5523F Sep 06 * Steel, Corrosion and Heat Resistant, Sheet, Strip, and Plate, 23Cr 13.5Ni (SAE 30309S), Solution Heat Treated
- SAE AMS 5532G Sep 06 * Iron Alloy, Corrosion and Heat Resistant, Sheet, Strip, and Plate 30Fe 21Cr 20Ni 20Co 3.0Mo 2.5W 1.0Cb 0.15N, Solution Heat Treated
- SAE AMS 5547H Sep 06 * Steel, Corrosion and Heat Resistant, Sheet and Strip 15.5Cr 4.5Ni 2.9Mo 0.10N Solution Heat Treated
- SAE AMS 5548N Sep 06 * Steel, Corrosion and Heat Resistant, Sheet and Strip 16.5Cr 4.5Ni 2.9Mo 0.10N, 1850 to 1975°F (1010 to 1079°C), Annealed
- SAE AMS 5554E Sep 06
 * Steel, Corrosion and Heat Resistant, Seamless Tubing 16.5Cr 4.5Ni 2.9Mo 0.10N Annealed

 SAE AMS 5571H Sep 06
 * Steel, Corrosion and Heat Resistant, Seamless Tubing 18Cr 10.5Ni 0.70Cb (Nb) (SAE 30347)

 Solution Heat Treated
- SAE AMS 5591K Jun 06

 * Steel, Corrosion and Heat Resistant, Tubing, Seamless 12.5Cr (SAE 51410) Annealed

 * Nickel Alloy, Corrosion and Heat Resistant, Sheet, Strip, and Plate 41.5Ni 16Cr 37Fe

 2.9Cb(Nb) 1.8Ti Consumable Electrode or Vacuum Induction Melted, 1800°F (982°C) Solution

 Heat Treated
- SAE AMS 5610N Jun 06 * Steel, Corrosion and Heat Resistant, Bars, Wire, and Forgings 12.5Cr Low Carbon (SAE 51416, 51416Se) Free-Machining
- SAE AMS 5611F Sep 06
 * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings 12Cr Ferrite Controlled, Consumable Electrode Melted
- SAE AMS 5612H Sep 06 * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings 12Cr Ferrite Controlled, Annealed
- SAE AMS 5617J May 06
 * Steel, Corrosion Resistant, Bars, Wire, and Forgings 12Cr 8.5Ni 1.2Ti 2.0Cu Vacuum Induction Plus Vacuum Consumable Electrode Melted Solution Heat Treated, Precipitation Hardenable
- SAE AMS 5620G Sep 06 * Steel, Corrosion and Heat Resistant, Bars, Wire, and Forgings 13Cr(0.30-0.40C) (SAE 51420F, 51420FSe) Free-Machining, Grade
- SAE AMS 5631E Sep 06 * Steel, Corrosion Resistant, Bars and Forgings 17Cr (0.60-0.75C) (SAE 51440A)
 * Steel, Corrosion Resistant, Bars, Wire, and Forgings 17Cr 0.5Mo (0.95-1.20C) (SAE 51440F)
 Free-Machining, Annealed
- SAE AMS 5636F Jun 06 * Steel, Corrosion Resistant, Bars and Wire 18Cr 9.0Ni (SAE 30302) Solution Heat Treated and Cold Drawn, 100 ksi (689 MPa) Tensile Strength
- SAE AMS 5650F Sep 06 * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings 23Cr 13.5Ni (SAE 30309S), Solution Heat Treated
- SAE AMS 5700F Jun 06 * Steel, Corrosion and Heat Resistant, Bars, Forgings, and Rings 13.5Cr 13.5Ni 0.35Mo 2.2W Annealed
- SAE AMS 5708J Sep 06 * Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings, and Rings 58Ni 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al Consumable Electrode or Vacuum Induction Melted 1975°F (1079°C) Solution Heat Treated
- SAE AMS 5712J Sep 06 * Nickel Alloy, Corrosion and Heat Resistant, Bars, Forgings, and Rings 53Ni 19Cr 11Co 9.8Mo 3.2Ti 1.6Al 0.006B Vacuum Melted, Solution Heat Treated Precipitation Hardenable

^{*} Technical Revision + New Document

| SAE AMS 5719D Sep 06 | * Steel Bars, Wire, Forgings, Tubing, Rings, and Extrusions, Corrosion Resistant 11.8Cr 2.5Ni 1.8Mo 0.33V (0.08-0.15C) Annealed, Vacuum Arc or Electroslag Remelted |
|----------------------|---|
| SAE AMS 5726D Aug 06 | * Steel, Corrosion and Heat Resistant, Bars and Wire 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V 1800°F (982°C) Solution Heat Treated and Work-Strengthened Consumable Electrode Melted 200 ksi (1379 MPa) Tensile Strength |
| SAE AMS 5731L Oct 01 | * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V, Consumable Electrode Melted, 1800°F (982°C) Solution Heat Treated |
| SAE AMS 5732J Sep 06 | * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing and Rings 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V Consumable Electrode Melted 1800°F (982°C) Solution and Precipitation Heat Treated |
| SAE AMS 5734K Jun 06 | * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, and Tubing 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V, Consumable Electrode Melted, 1650°F (899°C) Solution Heat Treated |
| SAE AMS 5737P Jun 06 | * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings and Tubing 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V, Consumable Electrode Melted, 1650°F (899°C), Solution and Precipitation Heat Treated |
| SAE AMS 5747D Aug 06 | * Nickel Alloy, Corrosion and Heat Resistant, Bars, Forgings, and Rings 72Ni 15.5Cr 0.95Cb 2.5Ti 0.70Al 7.0Fe Solution Heat Treated, Precipitation Hardenable |
| SAE AMS 5780E Jun 06 | * Steel, Corrosion and Heat Resistant, Welding Wire 15.5Cr 4.5Ni 2.9Mo 0.10N |
| SAE AMS 5788F Jun 06 | * Cobalt Alloy, Corrosion and Heat Resistant, Hard Facing Rods and Wire, 62Co 29Cr 4.5W 1.2C |
| SAE AMS 5792B Aug 06 | * Powder, Plasma Spray 50(88W 12Co) +35(70Ni 16.5Cr 4Fe 4Si 3.8B) +15(80Ni 20Al) Three-Componen Mixture |
| SAE AMS 5793B Aug 06 | * Powder, Plasma Spray 95Ni 5Al |
| SAE AMS 5837G Sep 06 | * Nickel Alloy, Corrosion and Heat Resistant, Welding Wire 62Ni 21.5Cr 9.0Mo 3.7Cb(Nb) |
| SAE AMS 5841E Aug 06 | * Cobalt-Nickel Alloy, Corrosion and Heat Resistant, Bars 19Cr 36Co 25Ni 7.0Mo 0.50Cb (Nb) 2.9Ti 0.20Al 9.0Fe Vacuum Induction Plus Vacuum Consumable Electrode Melted Solution Heat Treated For Work Strengthening |
| SAE AMS 5842E Aug 06 | * Cobalt-Nickel Alloy, Corrosion and Heat Resistant, Bars 19Cr 36Co 25Ni 7.0Mo 0.50Cb (Nb) 2.9Ti 0.20Al 9.0Fe Vacuum Induction Plus Vacuum Consumable Electrode Melted Solution Heat Treated and Work Strengthened |
| SAE AMS 5843E Aug 06 | * Cobalt-Nickel Alloy, Corrosion and Heat Resistant, Bars 19Cr 36Co 25Ni 7.0Mo 0.50Cb (Nb) 2.9Ti 0.20Al 9.0Fe Vacuum Induction Plus Vacuum Consumable Electrode Melted, Solution Heat Treated Work Strengthened and Aged |
| SAE AMS 5853C Jun 06 | * Steel, Corrosion and Heat Resistant, Bars and Wire 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V, Consumable Electrode Melted 1800°F (982°C) Solution Treated and Work-Strengthened 160 ksi (1103 MPa) Tensile Strength |
| SAE AMS 5860F Jun 06 | * Steel, Corrosion Resistant, Sheet, Strip, and Plate 12Cr 8.5Ni 0.30Cb 1.1Ti 2.0Cu Multiple Melted, Solution Heat Treated, Precipitation Hardenable |
| SAE AMS 5862H Sep 06 | * Steel, Corrosion-Resistant, Sheet, Strip, and Plate 15Cr 4.5Ni 0.30Cb (Nb) 3.5Cu Consumable Electrode Remelted, Solution Heat Treated Precipitation Hardenable |
| SAE AMS 5872E Sep 06 | * Nickel Alloy, Corrosion and Heat Resistant, Sheet, Strip, and Plate 48Ni 20Cr 20Co 5.9Mo 2.2Ti 0.45Al Consumable Electrode or Vacuum Induction Melted Solution Heat Treated |
| SAE AMS 5895D Sep 06 | * Steel, Corrosion and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings 15Cr 25.5Ni 1.2Mo 2.1Ti 0.006B 0.30V Consumable Electrode Melted, 1750°F (954°C) Solution Heat Treated, Welding Grade Precipitation Hardenable |
| SAE AMS 5897B Jun 06 | * Steel, Corrosion and Heat Resistant, Seamless or Welded Hydraulic Tubing 18.5Cr 11Ni 0.80Cb (Nb) (SAE 30347) Solution Heat Treated and Cold Drawn, 1/8 Hard Temper |
| SAE AMS 5906B Sep 06 | * Steel, Corrosion Resistant, Sheet and Strip 18Cr 9.0Ni (SAE 30302) Cold Rolled, Full Hard, 185 ksi (1276 MPa) Tensile Strength |
| SAE AMS 5907B Sep 06 | * Steel, Corrosion and Heat Resistant, Sheet, Strip, and Plate 17Cr 12Ni 2.5Mo (SAE 30316) Cold Rolled, 1/4 Hard, 125 ksi (862 MPa) Tensile Strength |
| SAE AMS 5910B Sep 06 | * Steel, Corrosion Resistant, Sheet, Strip, and Plate 19Cr 9.2Ni (SAE 30304) Cold Rolled, 125 ksi (862 MPa) Tensile Strength |
| SAE AMS 5925A Aug 06 | * Steel, Corrosion Resistant, Bars, Wire, and Forgings 15.5Cr 1.8Mo 0.20N (0.37 - 0.45 C) Electroslag Remelted |

^{*} Technical Revision

WROUGHT LOW ALLOY STEELS

| SAE AMS 6350K Jun 06 | * Steel Sheet, Strip, and Plate 0.95Cr 0.20Mo (0.28-0.33C) (SAE 4130) |
|----------------------|--|
| SAE AMS 6351G Jun 06 | * Steel, Sheet, Strip, and Plate 0.95Cr 0.20Mo (0.28 0.33C) (SAE 4130) Spheroidized |
| SAE AMS 6356F Sep 06 | * Steel Sheet, Strip, and Plate, 0.95Cr 0.20Mo (0.30-0.35C) (SAE 4132) |
| SAE AMS 6357J Jun 06 | * Steel Sheet, Strip, and Plate 0.50Cr 0.55Ni 0.25Mo (0.33-0.38C) (SAE 8735) |
| SAE AMS 6358H Jun 06 | * Steel Sheet, Strip, and Plate 0.50Cr 0.55Ni 0.25Mo (0.38-0.43C) (SAE 8740) |
| SAE AMS 6395F Aug 06 | * Steel Sheet, Strip, and Plate, 0.95Cr 0.20Mo (0.38 0.43C) (SAE 4140) |
| SAE AMS 6396D Jun 06 | * Steel Sheet, Strip, and Plate, 0.80Cr 1.8Ni 0.25Mo (0.49-0.55C) Annealed |
| SAE AMS 6413K Jun 06 | * Steel Tubing, Mechanical, 0.80Cr 1.8Ni 0.25Mo (0.35 0.40C) (SAE 4337) |
| SAE AMS 6421E Jun 06 | * Steel Bars, Forgings, and Tubing, 0.80Cr 0.85Ni 0.20Mo 0.003B (0.35-0.40C) (Modified 98B37) |
| SAE AMS 6422H Jun 06 | * Steel Bars, Forgings, and Tubing, 0.80Cr 0.85Ni 0.20Mo 0.003B 0.04V (0.38-0.43C) (Modified 98BV40) |
| SAE AMS 6437G Sep 06 | * Steel Sheet, Strip, and Plate 5.0Cr 1.3Mo 0.50V (0.38 0.43C) (H-11) |
| SAE AMS 6439C Jun 06 | * Steel Sheet, Strip, and Plate, 1.05Cr 0.55Ni 1.0Mo 0.12V (0.42 - 0.48C) (D6AC) Consumable Electrode Vacuum Melted, Annealed |
| SAE AMS 6440N Sep 06 | * Steel Bars, Forgings, and Tubing 1.45Cr (0.98 1.10C) (SAE 52100) For Bearing Applications |
| SAE AMS 6444K Sep 06 | * Steel, Bars, Forgings, and Tubing 1.45Cr (0.93-1.05C) (SAE 52100) Premium Aircraft-Quality, Consumable Electrode Vacuum Melted |
| SAE AMS 6476C Jun 06 | * Steel, Bars, Forgings, and Tubing 0.50Cr 0.12Mo (0.89 1.01C) |
| | |

* Steel, Bars and Forgings, Maraging 2.0Cr 10Ni 8.0Co 1.0Mo (0.10-0.14C)(HY-180) Double

SPECIAL PROPERTY MATERIALS

SAE AMS 6543D Oct 01

SAE AMS 7510/1B Sep 06 * Magnets, Rare-Earth/Cobalt, Permanent, Samarium/Cobalt, 33/67 15 (119) 250 SAE AMS 7510/2B Sep 06 * Magnets, Rare-Earth/Cobalt, Permanent, Samarium/Cobalt, 33/67 18 (143) 250

Vacuum Melted, Solution Heat Treated

REFRACTORY AND REACTIVE MATERIALS

| SAE AMS 7847C Jun 06 | * Tantalum Alloy Sheet, Strip, and Plate, 90Ta 10W |
|----------------------|---|
| SAE AMS 7848C Jun 06 | * Tantalum Alloy, Bars and Rods 90Ta 10W |
| SAE AMS 7849D Jun 06 | * Tantalum, Sheet, Strip, and Plate, Annealed |
| SAE AMS 7902E Jun 06 | * Beryllium Sheet and Plate 98Be |
| SAE AMS 7904C Jun 06 | * Beryllium Bars, Rods, Tubing, and Shapes High Ductility Grade |
| SAE AMS 7905B Jun 06 | * Beryllium Bars, Rods, Tubing, and Shapes Optical Grade |
| SAE AMS 7906B Jul 06 | * Beryllium Bars, Rods, Tubing, and Shapes Standard Grade |
| SAE AMS 7907B Jul 06 | * Beryllium Bars, Rods, Tubing, and Shapes Instrument Grade |
| SAE AMS 7908B Jul 06 | * Beryllium Near-Net Preforms Standard Grade Hot Isostatic Pressed |
| SAE AMS 7910B Jul 06 | * Beryllium Near-Net Preforms Standard Grade Cold Isostatic Pressed, Sintered |
| SAE AMS 7912B Jul 06 | * Aluminum-Beryllium Alloy, Extrusions 38Al 62Be Annealed |
| SAE AMS 7913B Jul 06 | * Aluminum-Beryllium Alloy, Sheet and Plate 38Al 62Be |
| | |

^{*} Technical Revision

NEW AND NOTEWORTHY AEROSPACE AND AMS STANDARDS

AMS4401 – Aluminum Alloy Plate (7140-T7451), 6.6Zn – 1.8Cu – 2.0 Mg – 0.10Zr, Solution Heat Treated, Stress Relieved and Overaged

Committee Name:

AMS-D Nonferrous Alloys Committee

Details:

7140 T7451 plate product was developed following an airframe producer request for material having the following characteristics: 1) improved strength and toughness while maintaining similar corrosion resistance compared to 7050 T7451 and 2) a very low level of residual stress to minimize machining distortion.

Additionally, the thickness of this product has been extended beyond the range of 7050 T7451, to 10" thick, providing additional options for users of 7xxx forgings.

The 7140 product has also been developed in the T7651 temper. There is a now a family of three products (7040 T7451, 7140 T7451 and 7140 T7651) offering improved properties and extended thickness availability compared to the 7050 T7451 baseline. These three products offer customers more choices according to the strength, toughness and corrosion resistance needed for a given application.

AMS2678 - Furnace Brazing of Parts in a Vacuum Atmosphere

Committee Name:

AMS-B Finishes Processes And Fluids Committee

Details:

Vacuum furnaces have for years been purchased and used for both heat treatment and brazing. Brazing in vacuum involves special considerations such as vaporization of the alloy and bonding due to the cleanliness of the environment that are different from normal furnace brazing. There has been no industry wide standard that discusses the general requirements of the vacuum environment when used for brazing. With this standard, the special requirements and restrictions for all classes of metal alloys that are brazed in the vacuum furnace are detailed in a single reference source.

This specification was initiated by AMEC in response to industry requests for an AMS specification that outlined specific requirements for brazing in a vacuum atmosphere.

GROUND VEHICLE

TOP SELLING GROUND VEHICLE INDIVIDUAL STANDARDS

As of September 2006

| J1939/71_200606 | Vehicle Application Layer |
|-----------------|--|
| J1455_200606 | Recommended Environmental Practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications |
| J1939_200501 | Recommended Practice for a Serial Control and Communications Vehicle Network |
| J514_200409 | Hydraulic Tube Fittings |
| J442_200605 | Test Strip, Holder, and Gage for Shot Peening |
| J1756_200608 | Determination of the Fogging Characteristics of Interior Automotive Materials |
| J200_200501 | Classification System for Rubber Materials |
| J1587_200202 | Electronic Data Interchange Between Microcomputer Systems in Heavy-Duty Vehicle Applications |
| JA1012_200201 | A Guide to the Reliability-Centered Maintenance (Rcm) Standard |
| J1739_200208 | Potential Failure Mode and Effects Analysis in Design (Design FMEA) and Potential Failure Mode and Effects Analysis in Manufacturing and Assembly Processes (Process FMEA) and Effects Analysis for Machinery (Machinery FMEA) |
| J1939/21_200104 | Data Link Layer |
| J1708_200408 | Serial Data Communications Between Microcomputer Systems in Heavy-Duty Vehicle Applications |
| J1850_200606 | Class B Data Communications Network Interface |
| J1960_200410 | Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Water-Cooled Xenon Arc Apparatus J |
| 211/1_200312 | Instrumentation for Impact Test-Part 1-Electronic Instrumentation |
| J1128_200512 | Low Voltage Primary Cable |
| J1979_200204 | E/E Diagnostic Test Modes Equivalent to ISO/DIS 15031-5:April 30, 2002 |
| J684_200507 | Trailer Couplings, Hitches, and Safety ChainsAutomotive Type |
| J4001_199911 | Implementation of Lean Operation User Manual |
| J1113/11_200601 | Immunity to Conducted Transients on Power Leads |
| J1113/12_200608 | Electrical Interference by Conduction and Coupling - Capacitive and Inductive Coupling via Lines Other than Supply Lines |
| J369_200305 | Flammability of Polymeric Interior MaterialsHorizontal Test Method |
| J403_200111 | Chemical Compositions of SAE Carbon Steels |
| J443_200301 (R) | Procedures for Using Standard Shot Peening Test Strip |
| J1113/41_200005 | Limits and Methods of Measurement of Radio Disturbance Characteristics of Components and |

Modules for the Protection of Receivers Used On Board Vehicles (Cancelled Sep 2006)



NEW AND REVISED GROUND VEHICLE STANDARDS

| IAPAA VIAD II | LVISED GITCOID VEHICLE STAIRDAIDS |
|---------------------|--|
| SAE J 20 JUN06 | * Coolant System Hoses |
| SAE J 101 AUG06 | * Hydraulic Wheel Cylinders for Automotive Drum Brakes |
| SAE J 163 JUL06 | * Low Tension Wiring and Cable Terminals and Splice Clips |
| SAE J 176 AUG06 | * Fast Fill Fueling Installation for Off-Road Self-Propelled Work Machines |
| SAE J 292 AUG06 | * Snowmobile and Snowmobile Cutter Lamps, Reflective Devices, and Associated Equipment |
| SAE J 301 JUL06 | * Effective Dates of New or Revised Technical Reports |
| SAE J 356 JUL06 | * Welded Flash-Controlled Low-Carbon Steel Tubing Normalized for Bending, Double Flaring, |
| | and Beading |
| SAE J 371 JUN06 | * Drain, Fill, and Level Plugs for Off-Road, Self-Propelled work machines |
| SAE J 567 SEP06 | * Lamp Bulb Retention System |
| SAE J 753 JUN06 | * Maintenance Interval Chart |
| SAE J 928 JUN06 | * Electrical TerminalsPin and Receptacle Type |
| SAE J 1113-3 SEP06 | * Conducted Immunity, 250 kHz to 400 MHz, Direct Injection of Radio Frequency (RF) Power |
| SAE J 1113-12 AUG06 | * Electrical Interference by Conduction and Coupling—Capacitive and Inductive Coupling via Lines Other than Supply Lines |
| SAE J 1121 SEP06 | * Helical Compression and Extension Spring Terminology |
| SAE J 1269 SEP06 | * Rolling Resistance Measurement Procedure for Passenger Car, Light Truck, and Highway Truck and Bus Tires |
| SAE J 1270 SEP06 | * Measurement of Passenger Car, Light Truck, and Highway Truck and Bus Tire Rolling Resistance |
| SAE J 1383 SEP06 | * Performance Requirements for Replacement Bulb Motor Vehicle Headlamps |
| SAE J 1402 AUG06 | * Automotive Air Brake Hose and Hose Assemblies |
| SAE J 1454 MAY06 | * Dynamic Durability Testing of Seat Cushions for Off-Road Work machines |
| SAE J 1455 JUN06 | * Recommended Environmental Practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications |
| SAE J 1469 JUN06 | * Air Brake Actuator Test Procedure, Truck-Tractor, Bus and Trailers |
| SAE J 1472 SEP06 | * Braking PerformanceRollerS |
| SAE J 1491 JUL06 | * Vehicle Acceleration Measurement |
| SAE J 1527 JUN06 | * Marine Fuel Hoses |
| SAE J 1624 SEP06 | * Fuel Crossover Line |
| SAE J 1645 AUG06 | * Fuel Systems and ComponentsElectrostatic Charge Mitigation |
| SAE J 1646 AUG06 | * Glossary of TermsLubricated Friction Systems |
| SAE J 1699-1 JUN06 | * SAE J1850 Verification Test Procedures |
| SAE J 1704 JUL06 | * Borate Ester Based Brake Fluids |
| SAE J 1756 AUG06 | * Determination of the Fogging Characteristics of Interior Automotive Materials |
| SAE J 1765 JUL06 | * SAE Miniature Bulb Vibration Test |
| SAE J 1850 JUN06 | * Class B Data Communication Network Interface |
| SAE J 1939-02 AUG06 | +Agricultural and Forestry Off-Road Machinery Control and Communication Network |
| SAE J 1939-11 SEP06 | * Physical Layer, 250K bits/s, Twisted Shielded Pair |
| SAE J 1939-71 JUN06 | * Vehicle Application Layer |
| SAE J 1939-73 SEP06 | * Application LayerDiagnostics |
| SAE J 1939-75 JUL06 | * Application LayerGenerator Sets and Industrial |
| SAE J 1985 AUG06 | * Fuel FilterInitial Single-Pass Efficiency Test Method |
| SAE J 2053 AUG06 | * Brake Master Cylinder Plastic Reservoir Assembly for Road Vehicles |
| SAE J 2057-1 SEP06 | * Class A Application/Definition |
| SAE J 2057-2 SEP06 | * Class A Multiplexing Actuators |
| SAE J 2057-3 SEP06 | * Class A Multiplexing Sensors |
| SAE J 2057-4 SEP06 | * Class A Multiplexing Architecture Strategies |
| SAE J 2115 AUG06 | * Brake Performance and Wear Test Code Commercial Vehicle Inertia dynamometer |
| SAE J 2295M | +FastenersPart StandardCap Screws, Hex Bolts, and Hex Nuts (Metric) |
| SAE J 2305 AUG06 | * Hazard Reduction for Horizontal Earthboring Machines |
| | |

^{*} Technical Revision + New Document

| SAE J 2488 AUG06 | * SAE No. 2 Friction Test Machine 6000 r/min Stepped Power Test |
|------------------|--|
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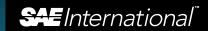
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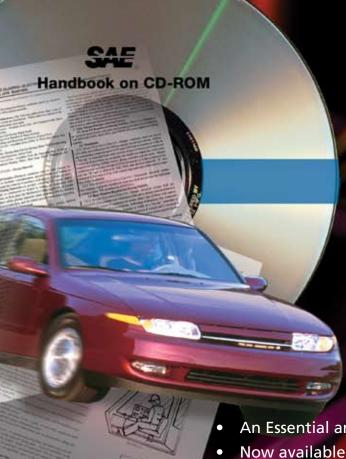
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